User's Manual

ZALMAN

CNPS9900 Max

Intel Socket 2011/1366/1156/1155/775 CPU

Core i7 Extreme, Core i7, Core i5, Core i3, Core 2 Extreme, Core 2 Quad, Core 2 Duo, Pentium Dual-Core, Pentium D, Pentium 4, Celeron D

AMD **Socket FM1/AM3+/AM3/AM2+/AM2 CPU**

Zambezi, Llano, Phenom II, Phenom, Athlon II, Athlon X2, Athlon FX, Athlon, Opteron Dual-Core, Opteron, Sempron

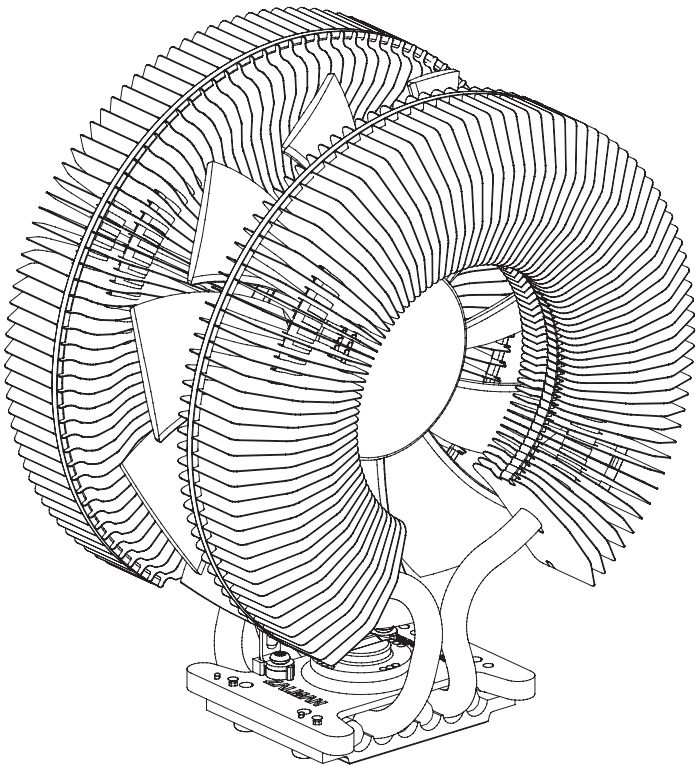
CNPS9900A LED / NT

Intel Socket 1366/1156/1155/775 CPU

Core i7 Extreme, Core i7, Core i5, Core i3, Core 2 Extreme, Core 2 Quad, Core 2 Duo, Pentium Dual-Core, Pentium D, Pentium 4, Celeron D

AMD **Socket FM1/AM3+/AM3/AM2+/AM2 CPU**

Zambezi, Llano, Phenom II, Phenom, Athlon II, Athlon X2, Athlon FX, Athlon, Opteron Dual-Core, Opteron, Sempron



To ensure safe and easy installation, please read the following precautions

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Ver. 3.0

1. Precautions

1) Avoid inserting objects or hands into the fan while it is in operation to prevent product damage and injuries.
2) Do not ingest the Thermal Grease, and avoid its contact with skin and eyes. If contact is made with skin, wash off with water. If ingested or irritation persists, seek medical attention.
3) To prevent possible injuries, gloves must be worn while handling this product.
4) Excessive force exerted on the fan may cause damage to the fan and/ or system.
5) Use and keep product away from the reach of children and pets.
6) Check the components list and condition of the product before installation. If any problem is found, contact the retailer to obtain a replacement.
7) Zalman Tech Co., Ltd. is not responsible for any damages due to overclocking.
8) Before transportation of the system, the cooler must be removed. Zalman is not responsible for any damages that occur during the transport of a system.
9) Enable PWM function in BIOS settings after installation.
10) Product design and specifications may be revised to improve quality and performance.

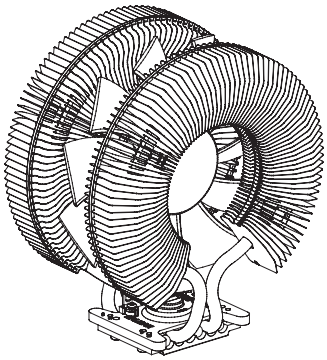
Disclaimer) Zalman Tech Co., Ltd. is not responsible for any damages due to external causes, including but not limited to, improper use, problems with electrical power, accident, neglect, alteration, repair, improper installation, or improper testing.

2. Specifications

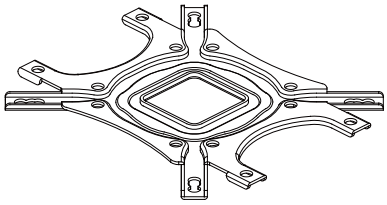
Spec. \ Model			CNPS9900A LED	CNPS9900 NT	CNPS9900 MAX (BLUE / RED)
Material			Pure Copper	Pure Copper, Black-Pearl Nickel Plated	
Weight			730g		755g
Dimensions			94(L) X 131(W) X 152(H)㎜		
Heat Dissipation Area			5,402 cm²		
Fan	Bearing		2 Ball-Bearing		Long Life Bearing
	Quiet Mode [w/ Resister]	RPM	800 ~ 1300 rpm ±10%		900 ~ 1500 rpm ±10%
		Noise Level	18 ~ 28.5 dBA ±10%		18 ~ 27 dBA ±10%
	Normal Mode [w/o Resister]	RPM	1000 ~ 2500 rpm ±10%		900 ~ 1700 rpm ±10%
		Noise Level	19.5 ~ 38.0 dBA ±10%		18~30 dBA ±10%
Thermal Grease [ZM-STG2]		Capacity	3.5g		
		Temp. Range	-40℃ ~ +150℃ (-40 ~ +302℉)		

3. Components

1) Common Components

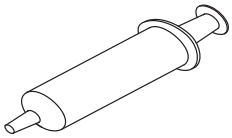


Cooler

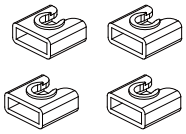


Backplate

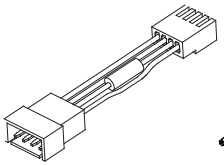
User's Manual



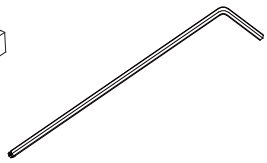
Thermal Grease
[ZM-STG2]



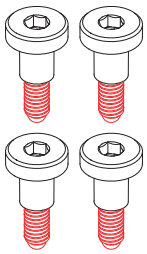
Side Caps



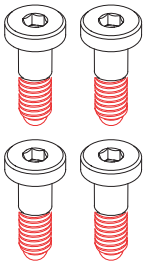
Resistor



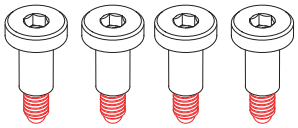
Wrench



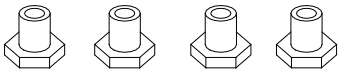
Gold Bolts
(Socket 1366)



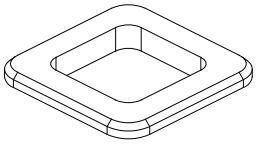
Silver Bolts A (4mm)
(Socket 2011,
CNPS9900MAX Only)



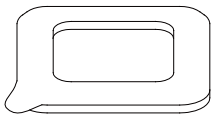
Silver Bolts B (3mm)
(Socket 1156/1155/775/AMD)



Nuts



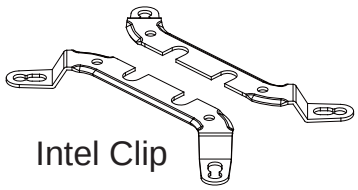
Loading Block



Double-sided Tape

2) Intel Components

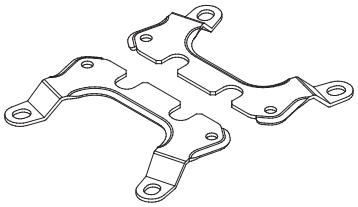
CNPS9900 MAX : Socket 2011/1366/1156/1155/775
CNPS9900A LED/NT : Socket 1366/1156/1155/775



Intel Clip

3) AMD Components

Socket FM1/AM3+/AM3/AM2+/AM2



AMD Clip

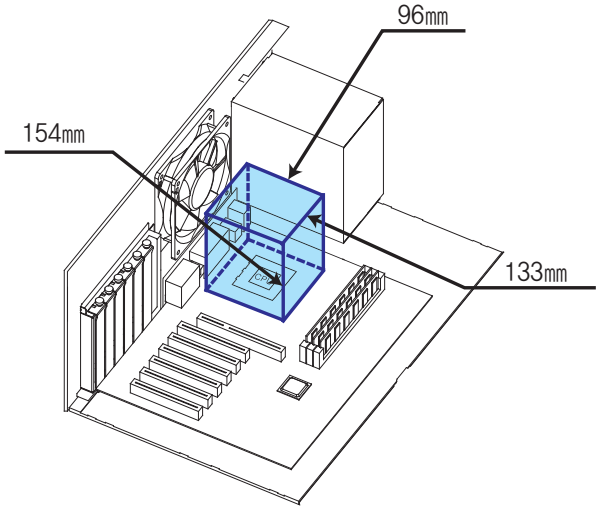
4. Installation Requirements

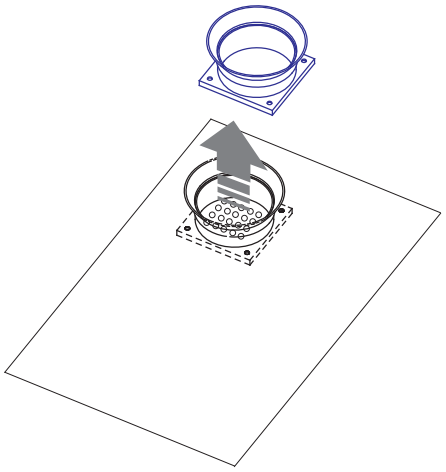
1) Space Requirements

The cooler's installation requires unobstructed space with dimensions of 133mm(width), 96mm(length), 154mm(height), and the CPU as a central reference point. Please check if components such as ODDs and PSU protrude into the required space.

2) Air Guide Removal

Air guides on enclosures must be removed, before the cooler's installation, for they protrude into the cooler's required space.



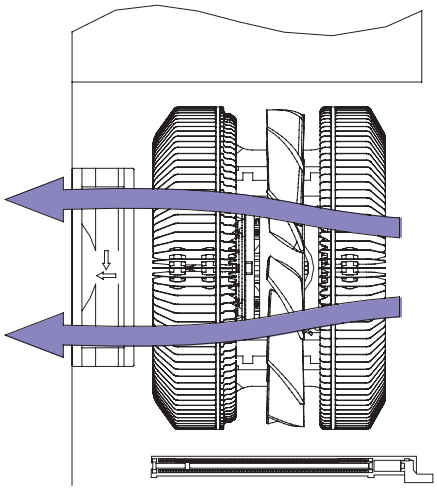


3) Protective Brace Removal

Please unclip and remove the heatsink's Plastic Brace before installing the cooler.

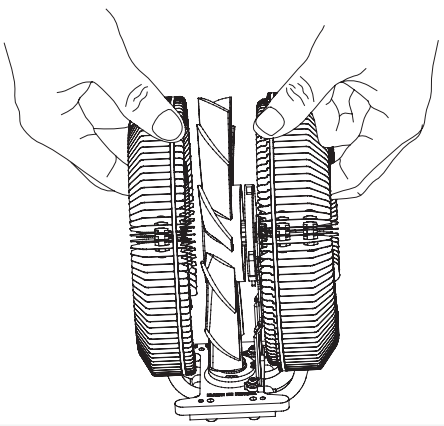
4) Cooler Orientation

In relation to the cooler's centrally located fan, air flows from the "thinner"(front) heatsink to the "thicker"(rear) heatsink. As shown in the diagram below, it is recommended that the cooler be installed so that air flows from the cooler toward the enclosure's rear exhaust fan to be released.



5) Cooler Handling

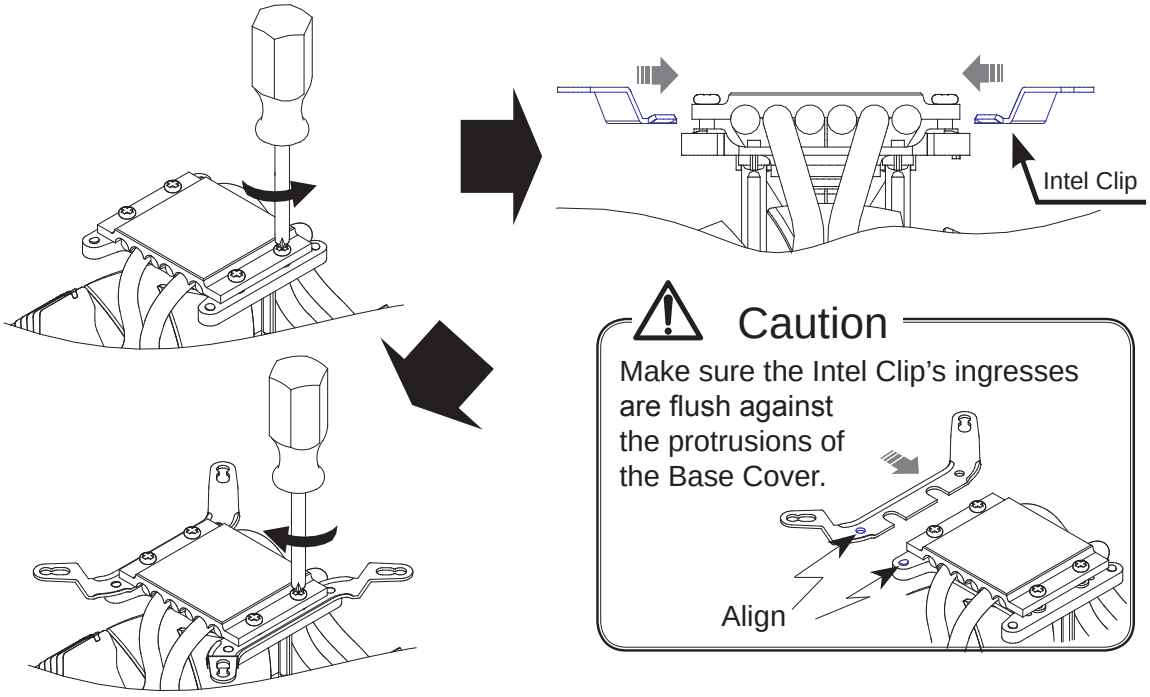
Please hold the cooler with both hands as shown in the diagram.



5. Installation

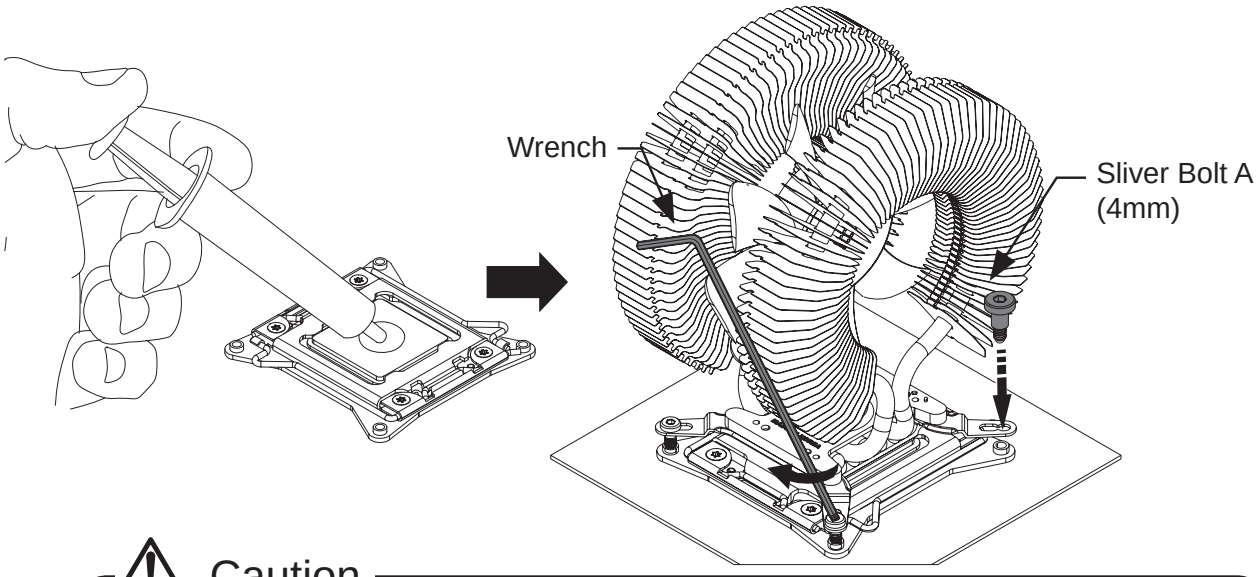
A. Intel Socket Installation

- Unfasten the Bolts on the Cooler's Base one thread, insert the Intel Clip between the Cover and the Base, and then refasten the Bolts.



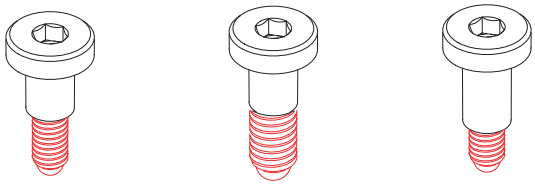
1) Intel Socket 2011 Installation (CNPS9900 MAX Series Only)

- Apply a suitable amount of the included Thermal Grease on the CPU's surface and then fasten the Bolts to install the cooler.



Caution

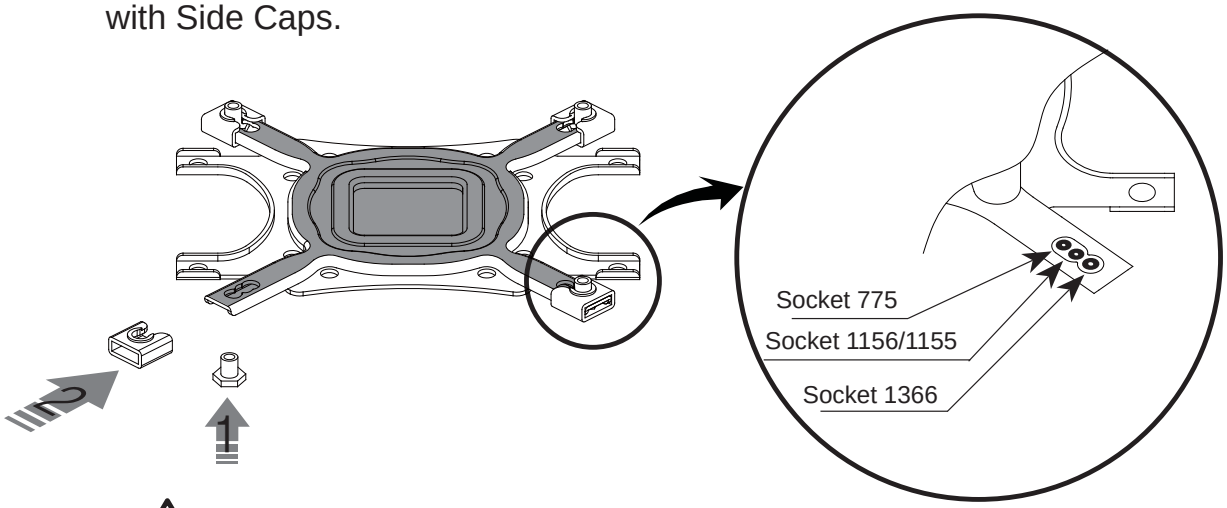
Check the size of the silver-colored bolts before installing because silver-colored bolt A and B have similar color.



Gold Bolts (Socket 1366)	Sliver Bolts A (4mm) (Socket 2011)	Sliver Bolts B (3mm) (Socket 1156/1155/ 775/AMD)

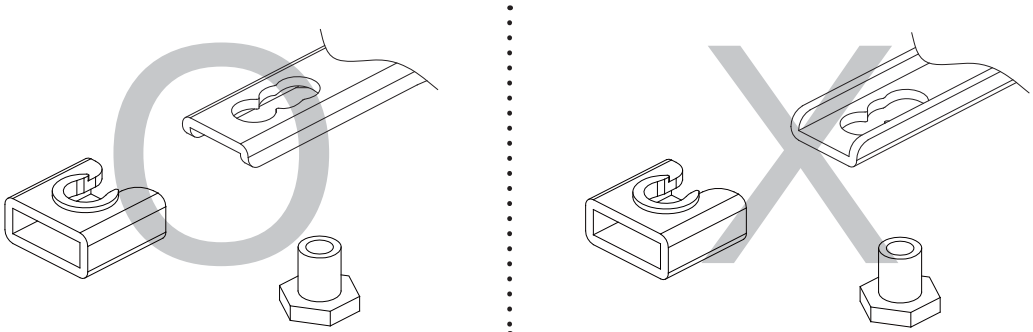
2) Intel Socket 1366/1156/1155/775 Installation

① Install Bolts to the Backplate according to the Socket Type and secure with Side Caps.



Caution

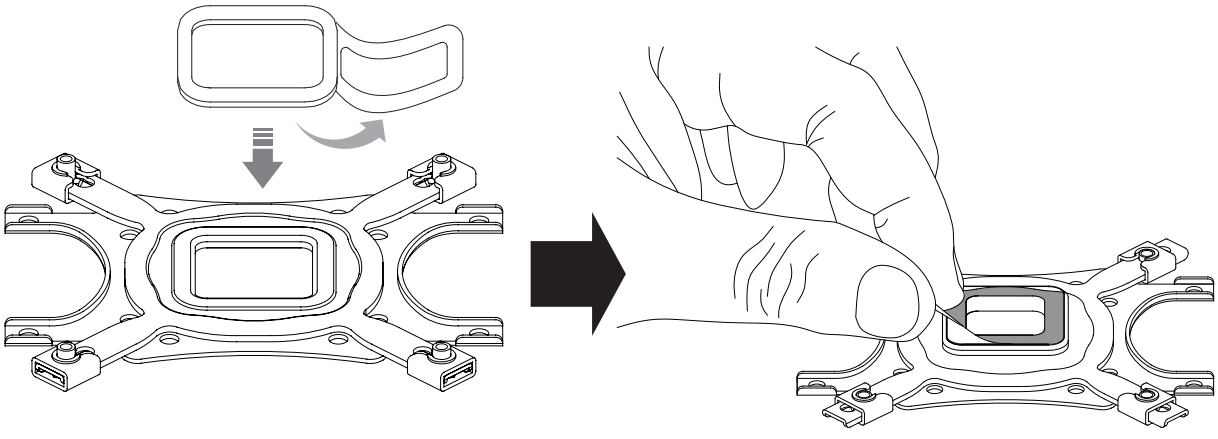
Take note of the orientation of the Nuts and the Side Caps.



② Socket 1366/1156/1155 Installation

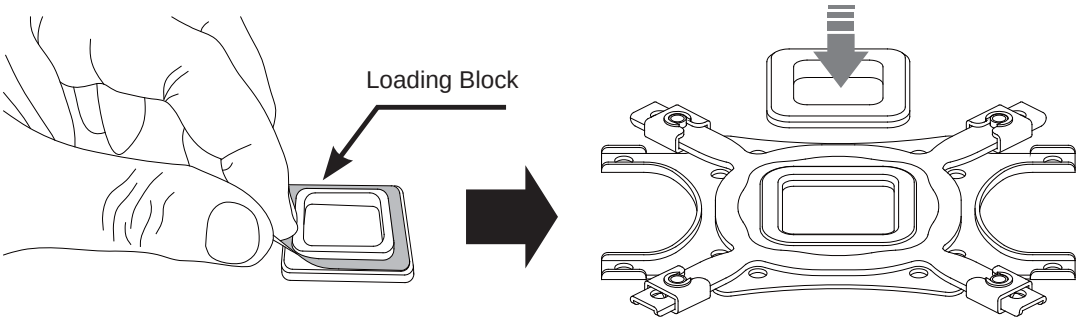
Attach Double-sided Tape to the center of the Backplate and remove the Double-sided Tape's Cover.

※ Socket 1366/1156/1155 Installation does not require the Loading Block.

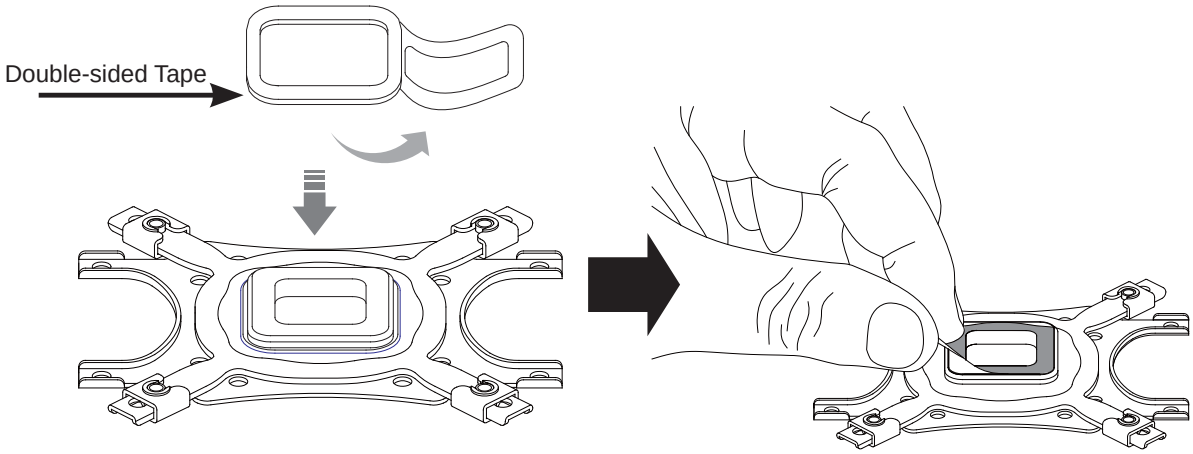


③ Socket 775 Installation

Remove the Sticker Cover from the Lower Tier of the Loading Block and attach to the Backplate.

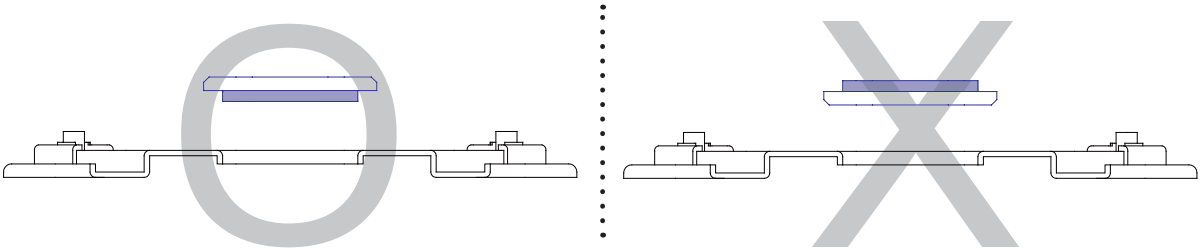


Attach Double-sided Tape to the Loading Block and remove the Double-sided Tape Cover.

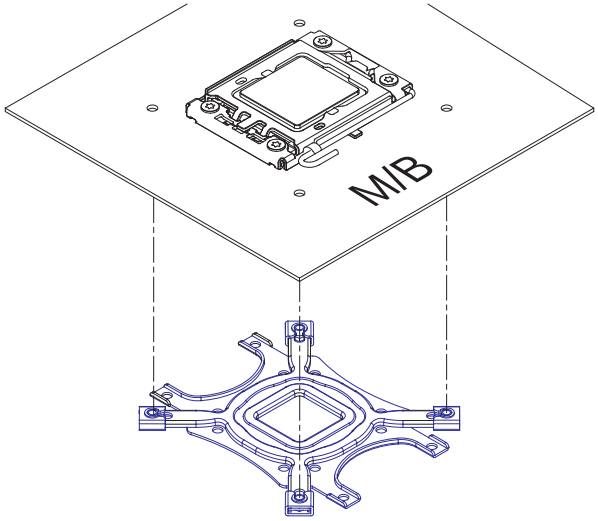


⚠ Caution

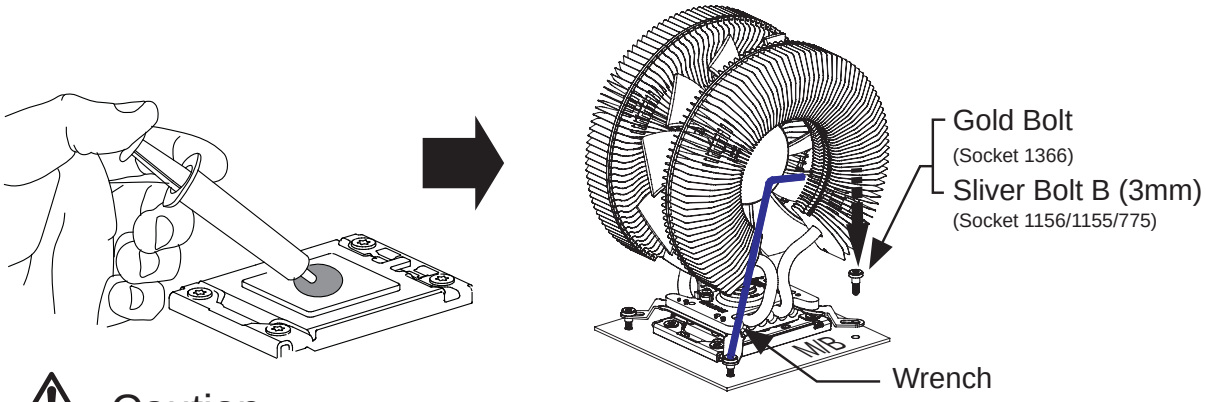
Please make note of the orientation of the Loading Block's Installation.



④ Align the Backplate's Nuts with the motherboard's Clip Support installation holes and then fasten to the motherboard.

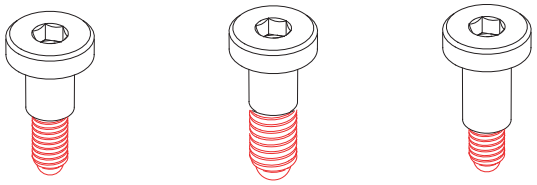


⑤ Apply a suitable amount of the included Thermal Grease on the CPU's surface and then fasten the Bolts to install the cooler.



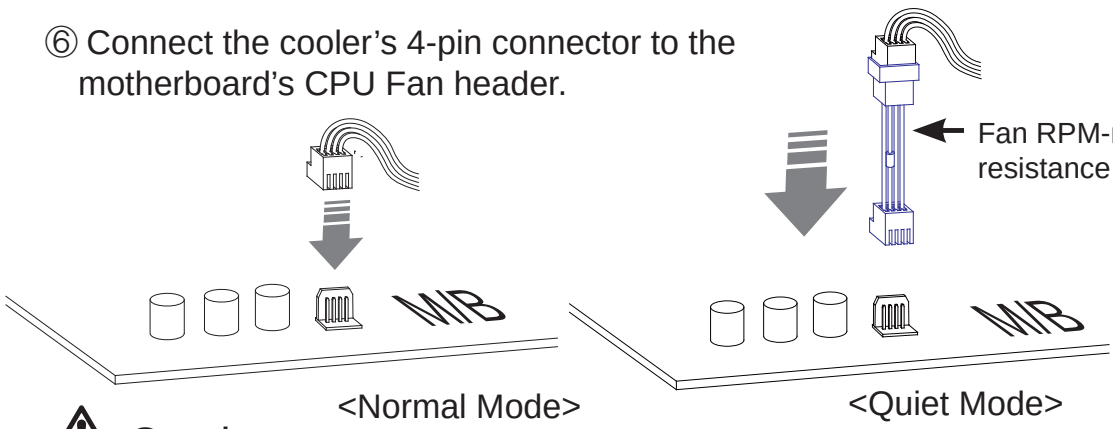
Caution

Check the size of the silver-colored bolts before installing because silver-colored bolt A and B have similar color.



Gold Bolts (Socket 1366) | Sliver Bolts A (4mm) (Socket 2011) | Sliver Bolts B (3mm) (Socket 1156/1155/775/AMD)

⑥ Connect the cooler's 4-pin connector to the motherboard's CPU Fan header.



<Normal Mode> <Quiet Mode>

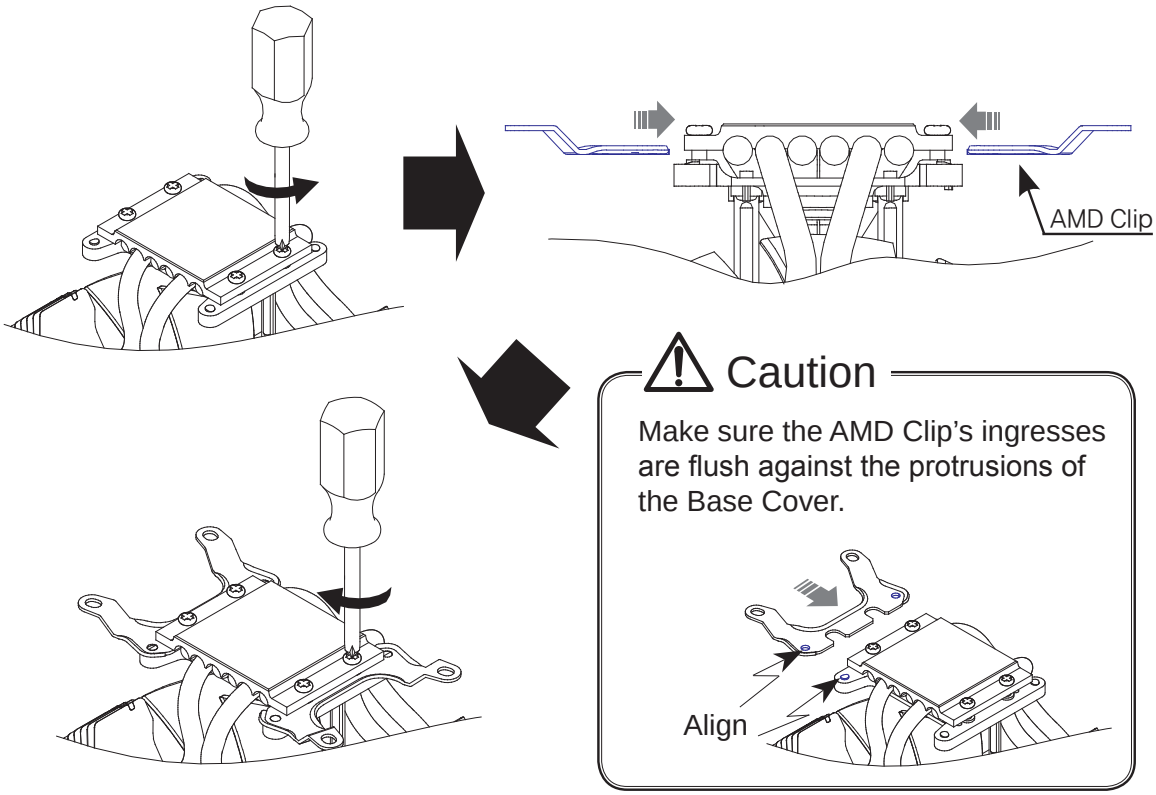
Caution

Please make sure that PWM Control Mode is activated in the motherboard's BIOS settings.

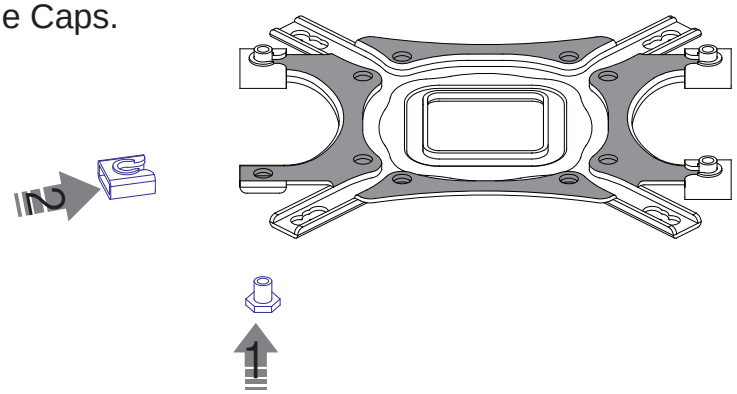
B. AMD Socket Installation

1) AMD Socket FM1/AM3+/AM3/AM2+/AM2 Installation

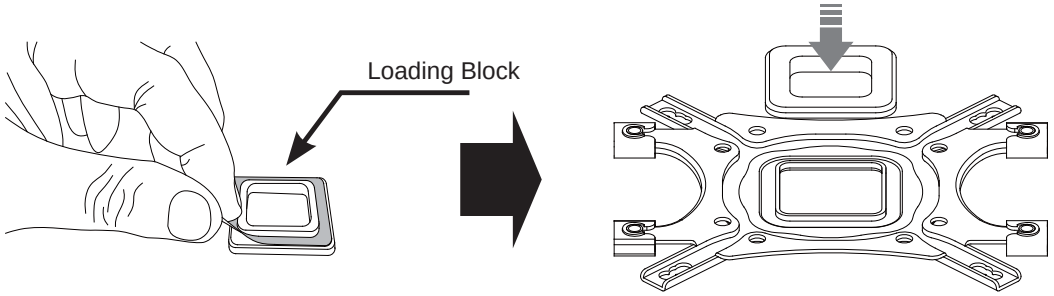
① Unfasten the Bolts on the Cooler's Base one thread, insert the AMD Clip between the Cover and the Base, and then refasten the Bolts.



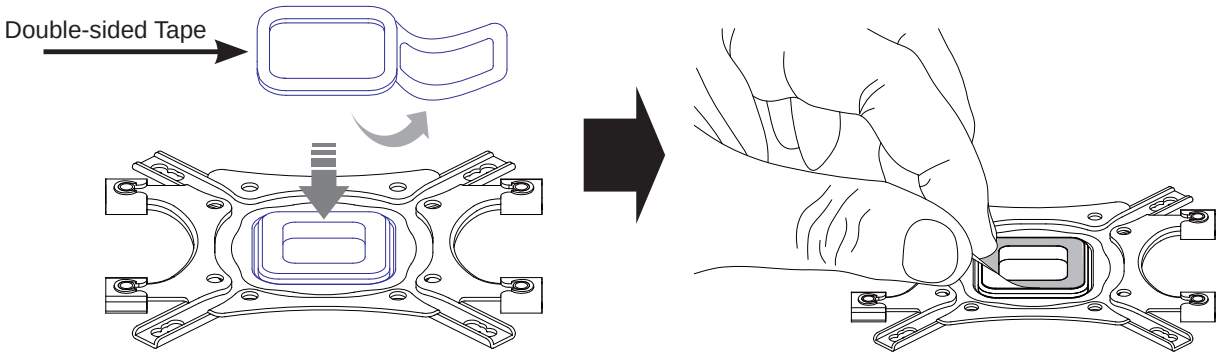
② Install Bolts to the Backplate according to the Socket Type and secure with Side Caps.



③ Remove the Sticker Cover from the Lower Tier of the Loading Block and attach to the Backplate.

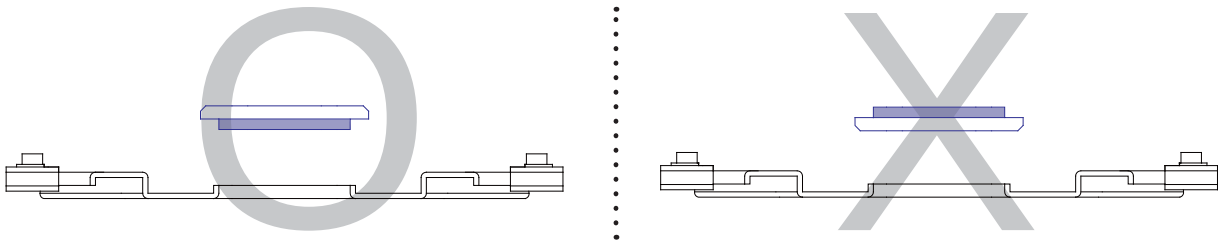


Attach Double-sided Tape to the Loading Block and remove the Double-sided Tape Cover.

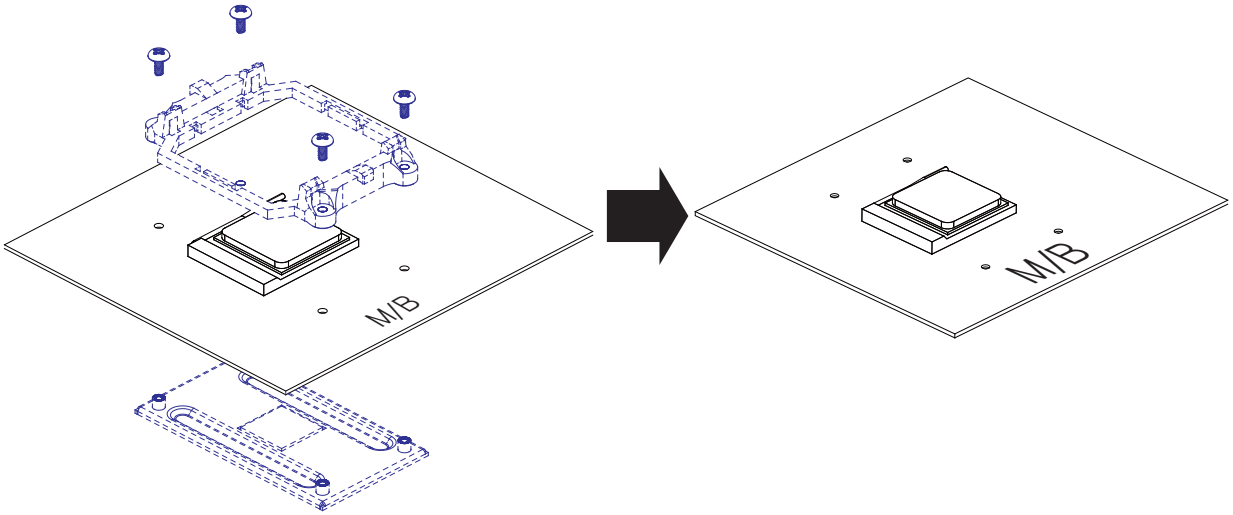


Caution

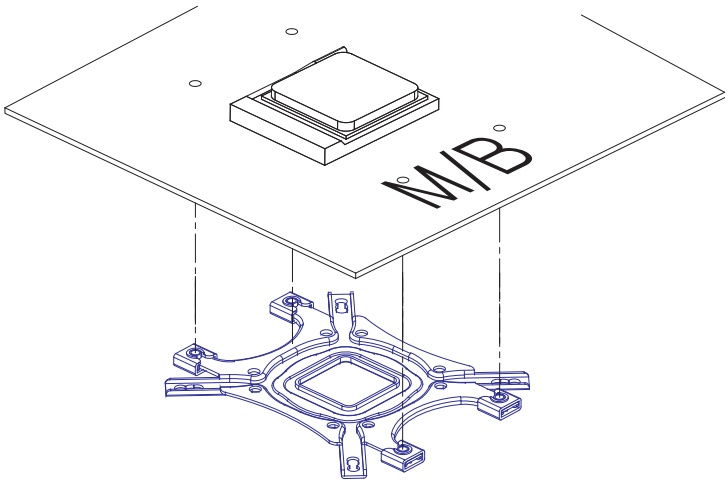
Please make note of the orientation of the Loading Block's Installation.



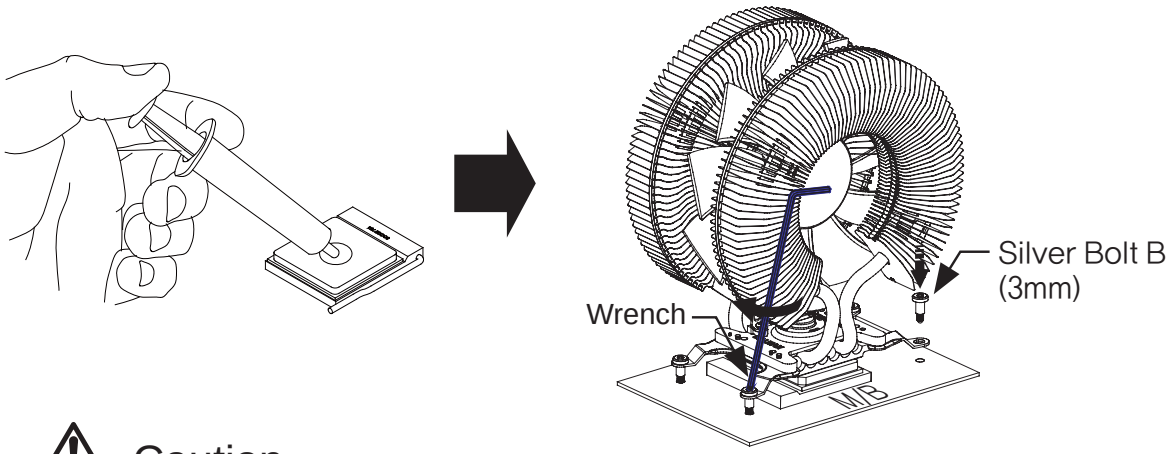
④ Disassemble the motherboard's Clip Support.



⑤ Align the Backplate's Nuts with the motherboard's Clip Support's installation holes and fasten to the motherboard.

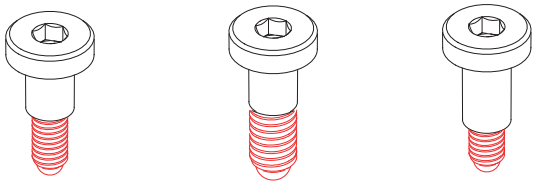


⑥ Apply a suitable amount of the included Thermal Grease on the CPU's surface and then fasten the Silver Bolts to install the cooler.
(Please use the designated Bolts in accordance with Socket Types.)



⚠ Caution

Check the size of the silver-colored bolts before installing because silver-colored bolt A and B have similar color.

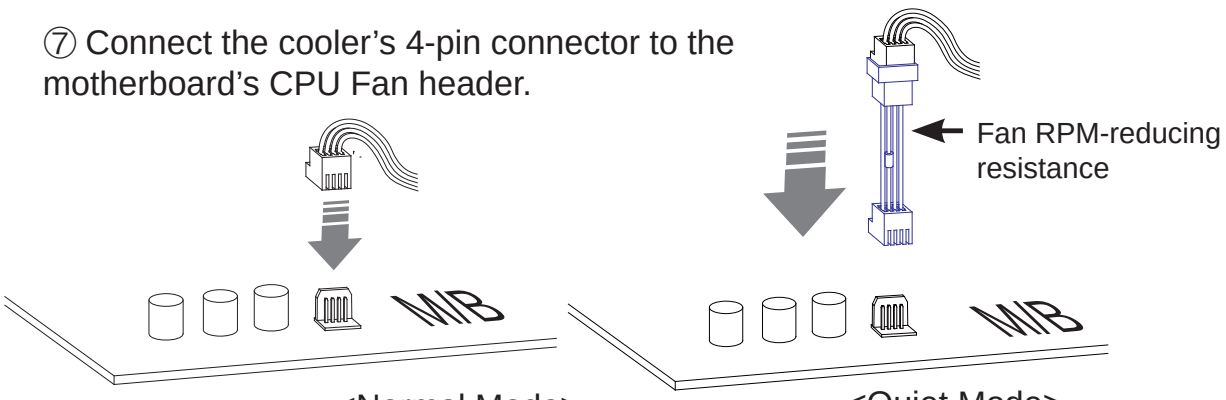


Gold Bolts (Socket 1366)

Sliver Bolts A (4mm) (Socket 2011)

Sliver Bolts B (3mm) (Socket 1156/1155/ 775/AMD)

⑦ Connect the cooler's 4-pin connector to the motherboard's CPU Fan header.



<Normal Mode>

<Quiet Mode>

⚠ Caution

Please make sure that PWM Control Mode is activated in the motherboard's BIOS settings.